

FORM PTO-1449/A and B (Modified)		APPLICATION NO.: 09/783,472	ATTY. DOCKET NO.: C0989.70031US00
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE: February 14, 2001	CONFIRMATION NO.: 1318
		APPLICANT: Chan et al.	
Sheet	1	of 3	GROUP ART UNIT: 1743 EXAMINER: Jan M. Ludlow

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
*	60/149,020			Chan et al.	08/13/99
*	09/374,902 6263286			Gilmanshin et al	08/13/99 7-2001
*	09/373,822			Tegenfeldt et al.	08/13/99
*	60/120,414			Tegenfeldt et al.	02/14/99
*	60/096,544			Tegenfeldt et al.	08/13/98
*	09/134,411			Chan	08/13/98
*	5,851,769			Gray et al.	12/22/98
*	5,846,724			Bensimon et al.	12/08/98
*	5,840,862			Bensimon et al.	11/24/98
*	5,837,115			Austin et al.	11/27/98
*	5,795,782			Church et al.	08/18/98
*	5,707,797			Windle	01/13/98
*	5,599,664			Schwartz	02/04/97
*	5,538,898			Wickramasinghe et al.	07/23/96
*	5,427,663			Austin et al.	06/27/95
*	5,356,776			Kambara et al.	10/18/94
*	5,079,169			Chu et al.	1/7/92
*	5,846,832			Oefner et al.	12/08/98
A1	6,210,896	B1		Chan	04/03/01
A2	6,355,420	B1		Chan	03/12/02
A3	6,403,311	B1		Chan	06/11/02

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
*	PCT	WO 00/09757				02/24/00	
*	PCT	WO 98/35012				08/13/98	
*	PCT	WO 97/06278				02/20/97	
*	PCT	WO 93/22463				11/93	
*	EPO	EP 0391674				10/10/90	

OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
*	Austin et al., 1997, "Stretch Genes", Physics Today 50:32-38		
*	Austin and Volkman, 1993, "Electrophoresis and microlithography", Analysis 21:235-238		
*	Bakajin et al., 1998, "Electrohydrodynamic stretching of DNA in confined environments", Phys. Rev. Lett. 80:2737-2740		

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	*	Bensimon et al., 1995 "Stretching DNA with a receding meniscus: experiments and models", Phys. Rev. Lett 74:4754-4757	
	*	Bensimone et al., 1994, "Alignment and sensitive direction of DNA by a moving interface", Science 265:2096-2098	
	*	Bustamante et al., 1994, "Entropic elasticity of lambda-phage DNA", Science 265:1599-1600	
	*	Chou et al., 1999, "A microfabricated device for sizing and sorting DNA molecules", Proc. Natl. Acad. Sci. USA 96: 11-13	
	*	Chu, 1991, "Laser manipulation of atoms and particles", Science 253: 861-866	
	*	Cluzel et al., 1996, "DNA: an extensible molecule", Science 271:792	
	*	Deen, 1998, <i>Analysis of Transport Phenomena</i> , Oxford University Press, NY , pp. 275-278	
	*	Duke et al., 1998, "Microfabricated sieve for the continuous sorting of macromolecules", Phys. Rev. Lett. 80:1552-1555	
	*	Ertas, 1998, "Lateral separation of macromolecules and polyelectrolytes in microlithographic arrays", Phys. Rev. Lett. 80:1548-1551	
	*	Grandbois et al., 1999 "How strong is a covalent bond?", Science 283:1727-1730	
	*	Harrison et al., 1992, "Capillary electrophoresis and sample injection systems integrated on a planar glass chip", Anal. Chem. 64:1926-1932	
	*	Hatfield and Quake, 1999, "Dynamic properties of an extended polymer solution", Phys. Rev. Lett. 82:3548-3551	
	*	Houseal et al., 1989, "Real-time imaging of single DNA molecules with fluorescence microscopy", Biophys. J. 56:507-516	
	*	Jacobson et al., 1995, "Fused quartz substrates for microchip electrophoresis", Anal. Chem. 67:2059-2063	
	*	Kabata et al., 1993, "Visualization of single molecules of RNA polymerase sliding along DNA", Science 262:1561-1563	
	*	Kim et al., 1990, "Intermediates in the folding reactions of small proteins", Annu. Rev. Biochem. 59:631-660	
	*	Lyon et al., 1997, "Confinement and detection of single molecules in submicrometer channels", Anal. Chem. 69:3400-3405	
	*	Marko, 1998, "DNA under high tension: overstretching, undertwisting, and relaxation dynamics", Physical Rev. E 27:2134-2149	
	*	Marko et al., 1995, "Stretching DNA", Macromolecules 28:8759-8770	
	*	Parra et al., 1993, "High resolution visual mapping of stretched DNA by fluorescent hybridization", Nature Genet. 5:17-21	
	*	Perkins et al., 1994, "Direct observation of tube-like motion of a single polymer chain", Science 264:819-822	
	*	Schnalzing et al., 1998, "DNA sequencing on microfabricated electrophoretic devices", Anal. Chem. 70:2303-2310	
	*	Schnalzing et al., 1997, "DNA typing in thirty seconds with a microfabricated device", Proc. Natl. Acad. Sci. USA 94:10273-10278	
	*	Schwartz et al., 1993, "Ordered restriction maps of <i>Saccharomyces cerevisiae</i> chromosomes constructed by optical mapping", Science 262:110-114	
	*	Schwartz et al., 1989, "Conformational dynamics of individual DNA molecules during gel electrophoresis", Nature 338:520-522	
	*	Seiler et al., 1993, "Planar glass chips for capillary electrophoresis: repetitive sample injection, quantitation and separation efficiency", Anal. Chem. 65:1481-1488	
	*	Smith et al., 1999, "Single-polymer dynamics in steady shear flow", Science 283:1724-1727	
	*	Smith et al., 1998, "Response of flexible polymers to a sudden elongational flow", Science 281:1335-1340	

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M	*	Smith et al., 1992, "Direct mechanical measurements of the elasticity of single DNA molecules by using magnetic beads". Science 258:1122-1126	
	*	Smith et al., 1989, "Observation of individual DNA molecules undergoing gel electrophoresis", Science 243:203-206	
	*	Tan et al., 1996, "Nanoscale Imaging and Sensing by Near-Field Optics", in : <u>Flourescence Imaging: Spectroscopy and Microscopy</u> , Wang and Herman, eds., Chemical Analysis Series 137:407-475	
	*	Volkmuth et al., 1994, "DNA electrodiffusion in a 2D array of posts", Phys. Rev. Lett. 72:2117-2120	
	*	Volkmuth et al., 1992, "DNA electrophoresis in microlithographic arrays", Nature 358: 600-652	
	*	Washizu et al., 1995 "Applications of electrostatic stretch-and-positioning of DNA", IEEE Trans. Industry Applications 31:447-456	
	*	Washizu et al., 1990, "Electrostatic manipulation of DNA in microfabricated structures", IEEE Trans Industry Applications 26:1165-1172	
	*	Woolley et al PNAS 91:11348-11352	
	*	Zimmerman et al., 1994, "DNA stretching on functionalized gold surfaces", Nucl. Acids. Res. 22:492-497	
	*	Fisher88, Fisher Scientific Catalog (1988), p. 861.	
CL	Office Action 01/14/2003 Paper #10 Appl. 09/636,793 Filed 08/11/2000		

EXAMINER	LUDLOW	DATE CONSIDERED	12/03
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#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 09/636,793, filed August 11, 2000, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

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